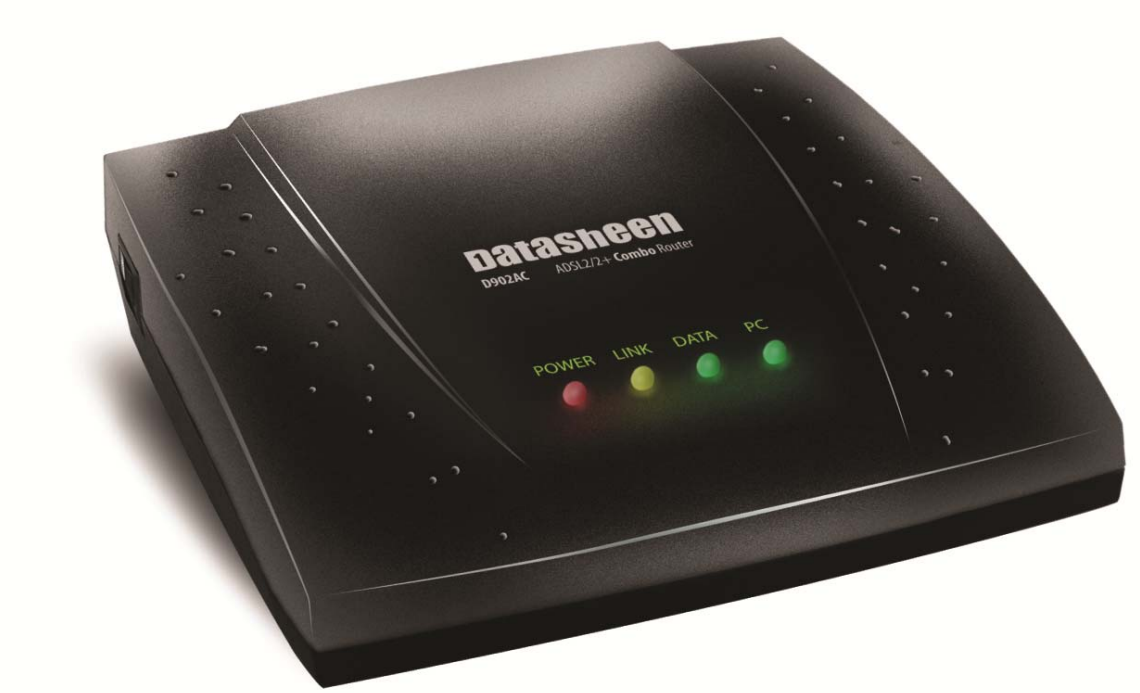
Datasheen

D902AC ADSL2/2+ Combo Router



User Manual

V1.3

CONTENTS

1.OVERVIEW 3

1.1 ABOUT ADSL 3
1.2 ABOUT ADSL2/2+ 3
1.3 FEATURES 3

2 SPECIFICATION 4

2.1 INTERFACE INTRODUCTION 4
2.1.1 INDICATOR AND INTERFACE 4
2.1.2 SPLITTER SPEC 4
2.2 HARDWARE CONNECTION 4
2.3 LED STATUS INDICATION 5

3. CONFIGURATION 6

3.1 DEFAULT CONFIGURATION 6
3.2 COMPUTER CONFIGURATION 6
3.3 ADSL MODEM CONFIGURATION 6
3.3.1 LOG IN 6
3.3.2 SAVE SETTING 6
3.4 WAN CONFIGURATION 7
3.4.1 CONFIGURATION GUIDE 7
3.4.2 RFC1483 BRIDGE CONFIGURATION 9
3.4.3 PPPOE CONFIGURATION 11
3.4.4 STATIC ADDRESS 12

4 OTHER CONFIGURATION 13

4.1 LAN CONFIGURATION 13
4.1.1 CONFIGURATION OF MODEM'S IP ADDRESS 13
4.1.2 DHCP CONFIGURATION 13
4.2 PASSWORD CONFIGURATION 14

5 USAGE OF USB INTERFACE 15

5.1 DRIVER AUTOMATIC INSTALLATION 15
5.2 DRIVER AUTOMATIC UNINSTALLATION 17
5.3 DRIVER MANUAL INSTALLATION 17
5.4 DRIVER MANUAL UNINSTALLATION 20
5.5 CONFIGURATION OF "USB REMOTE NDIS NETWORK DEVICE" 23

6. TROUBLESHOOTING 24

6.1 UNABLE TO ACCESS INTERNET 24
6.1.1 CHECK THE LINE AND THE DEVICE 24
6.1.2 CHECK YOUR CONFIGURATION 24

ANNEX：SHIPPING LIST 25

1.OVERVIEW

1.1 ABOUT ADSL

An ADSL MODEM is a broadband Internet access device, which utilizes the high frequency segment of the phone line to transmit high-speed data without affecting the voice transmission. The frequency of the ADSL signal is higher than that of voice, so voice and ADSL signal can coexist in one line by using a splitter to insulate each from the other. ADSL data transfer adapts the asymmetry model. It supports upload transmission speed up to 1Mbps and download speed up to 8 Mbps (24Mbps for ADSL2+). ADSL is an ideal device for broadband access.

1.2 ABOUT ADSL2/2+

Transmission performance of ADSL2 is improved comparing with the first generation of ADSL. These improvements are mainly concerned with long distance, anti-line-loss, anti-noise, etc. By doubling the transmission bandwidth, ADSL2+ has implemented a downlink rate as high as 24 Mbps. Therefore, Internet applications such as synchronous transmission of multi video stream, online games and huge capacity of downloading files are made possible.

1.3 FEATURES

1、 Support ANSI T1.413 ISSUE 2、 ITU G.992.1 (G.DMT)、ITU G.992.2 (G.LITE)、ITU G992.3、ITU G992.5
2、 Web-based configuration and monitoring.
3、 Support multiple PVCs.
4、 Routing function.
5、 NAPT、DHCP function.

2 SPECIFICATION

2.1 INTERFACE INTRODUCTION

2.1.1 INDICATOR AND INTERFACE

Table 2.1

ITEM	Name	State introduction
Indicator	POWER	A steady red light means the power connection works properly
	LINK	Yellow, shows DSL line status.
	DATA	Green, Flashing means the Modem is transmitting or receiving data
	PC	Three color, Indicates status of connection to the PC
Interface	LINE	Connected with phone line or “ADSL” port of the splitter.
	ETHERNET	To be connected to a PC network card by a straight-through network cable, also can use a crossover cable to connect to Hub, Switch or Router.
	USB	To be connected to a PC USB interface by a USB line.
	POWER	Power interface, Connect with power adapter.
	RST	Reset to default setting. Press the reset button and turn on the power, then keep pressing the reset button for 5 seconds. Then you can reset the modem with the default settings.
	SWITCH	To turn on / off the power.

2.1.2 SPLITTER SPEC

Table 2.2

Interface	Introduction
LINE	Connected with telephone line
ADSL	Connect with the LINE port of the ADSL Modem using telephone line provided.
PHONE	Connect with telephone

2.2 HARDWARE CONNECTION

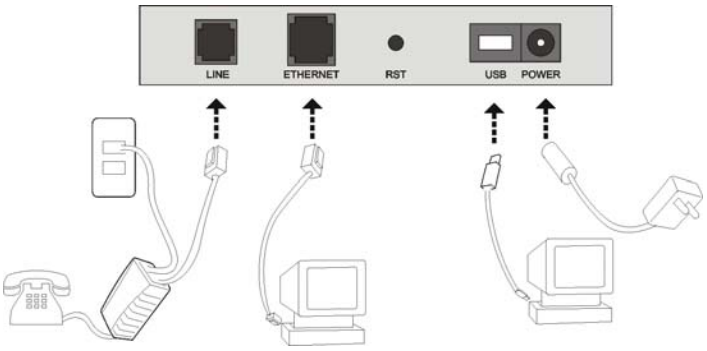


Figure 2.1

Introduction：

1、**U**se a telephone cord to connect the LINE port of the splitter with the RJ-11 port (the phone jack) on the wall.
2、Use another telephone cord to connect the ADSL port of the splitter with the LINE port of the ADSL Modem.
3、Use another telephone cord to connect the telephone set with the PHONE port of the splitter.
4、Connect Ethernet port of the ADSL MODEM with 10/100BASE-T port of the computer using the network cable that comes with the modem.
5、Plug in the power cord, and turn on the power.

If you do not want Internet services and telephone voice services simultaneously, please just connect the LINE port of the ADSL Modem with the RJ-11 port (the phone jack) on the wall using a telephone cord. In this case, the splitter is not necessary.

2.3 LED STATUS INDICATION

Table 2.3

		Steady light	Flashing	Fast flashing	Off
POWER (red)		Power on	/	/	Power off
LINK(yellow)		The modem is in good connection	In handshaking status	/	Connection not set up
DATA (green)		Wan is connected	/	Transmitting or receiving data	Wan is not connected
PC	Green	Ethernet line is connected	/	Ethernet is Transforming data	Ethernet line not connected properly
	Red	USB is connected		USB is Transforming data	USB is not connected properly
	Orange	USB and Ethernet are connected		USB and Ethernet are Transforming data	USB and Ethernet are not connected properly

3. CONFIGURATION

3.1 DEFAULT CONFIGURATION

ADSL MODEM has pre-configured with the VCI/VPI which is in common use. The default dial-up mode is bridge encapsulation. For bridge mode, no need to configure any more parameter. However, the third party dial-up software is needed for connection with the Internet.

3.2 COMPUTER CONFIGURATION

The default IP address for ADSL MODEM is: **192.168.1.1**; The Subnet Mask is：**255.255.255.0**. Users can configure ADSL MODEM through an Internet browser. ADSL MODEM can be used as gateway and DNS server; users need to set the computer's TCP/IP protocol as follow:

1、 Set the computer IP address at same segment of ADSL MODEM, such as set the IP address of the network card to one of the "192.168.1.2"～ "192.168.1.254".

2、 Set the computer's gateway the same IP address as the ADSL Modem's.

3、 Set computer's DNS server the same as ADSL Modem's IP address or that of an effective DNS server.

3.3 ADSL MODEM CONFIGURATION

3.3.1 LOG IN

Open the browser; input **http://192.168.1.1** at the address column. Press "Enter" key then the entry dialog box will show up as Figure 3.1. Input Username: admin ,Password: password (capital sensitive), then press Enter.

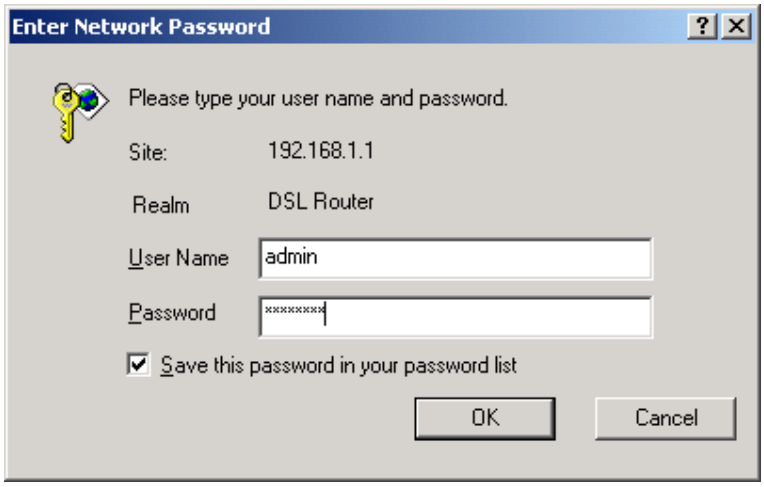


Figure 3.1

3.3.2 SAVE SETTING

After getting through each page for parameters setting, click "Save" or "Save apply" to store the value in ADSL MODEM. Briefly, we named "Save".

Note：

When you save the settings, the web page will be refreshed slowly, please wait it finished.
After you save the settings, it will take effect until next reboot.
Some settings only take effect after rebooting the router.

3.4 WAN CONFIGURATION

If the configuration is bridge encapsulation, there is no need to configure any more parameters. Only need to use the third party dial-up software to connect the Internet.

Totally, this router supports：PPPoA、PPPoE、MER、IPoA、Bridging. For detail configuration information, please check the following configuration guide.

3.4.1 CONFIGURATION GUIDE

Click “WAN” on the left page, enter into “WAN” configuration page.

- Note: At most we can have eight connections. If you need to add a new connection, please delete or modify an existing connection.

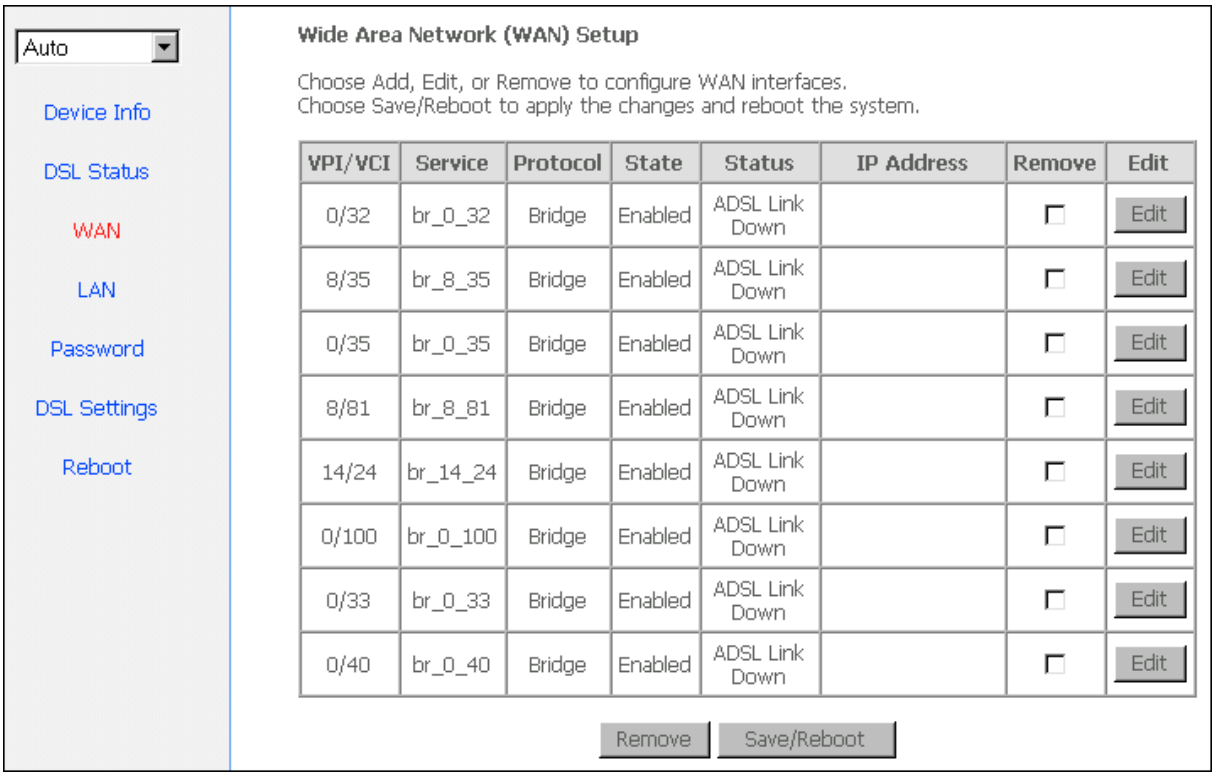

Auto
Device Info
DSL Status
WAN
LAN
Password
DSL Settings
Reboot
Wide Area Network (WAN) Setup
Choose Add, Edit, or Remove to configure WAN interfaces.
Choose Save/Reboot to apply the changes and reboot the system.
VPI/VCI Service Protocol State Status IP Address Remove Edit
0/32 br_0_32 Bridge Enabled ADSL Link Down Edit
8/35 br_8_35 Bridge Enabled ADSL Link Down Edit
0/35 br_0_35 Bridge Enabled ADSL Link Down Edit
8/81 br_8_81 Bridge Enabled ADSL Link Down Edit
14/24 br_14_24 Bridge Enabled ADSL Link Down Edit
0/100 br_0_100 Bridge Enabled ADSL Link Down Edit
0/33 br_0_33 Bridge Enabled ADSL Link Down Edit
0/40 br_0_40 Bridge Enabled ADSL Link Down Edit
Remove
Save/Reboot

Figure 3.2

Click on the next connection which you want modify. Press “Edit” button, enter the configure guide, as Figure 3.3

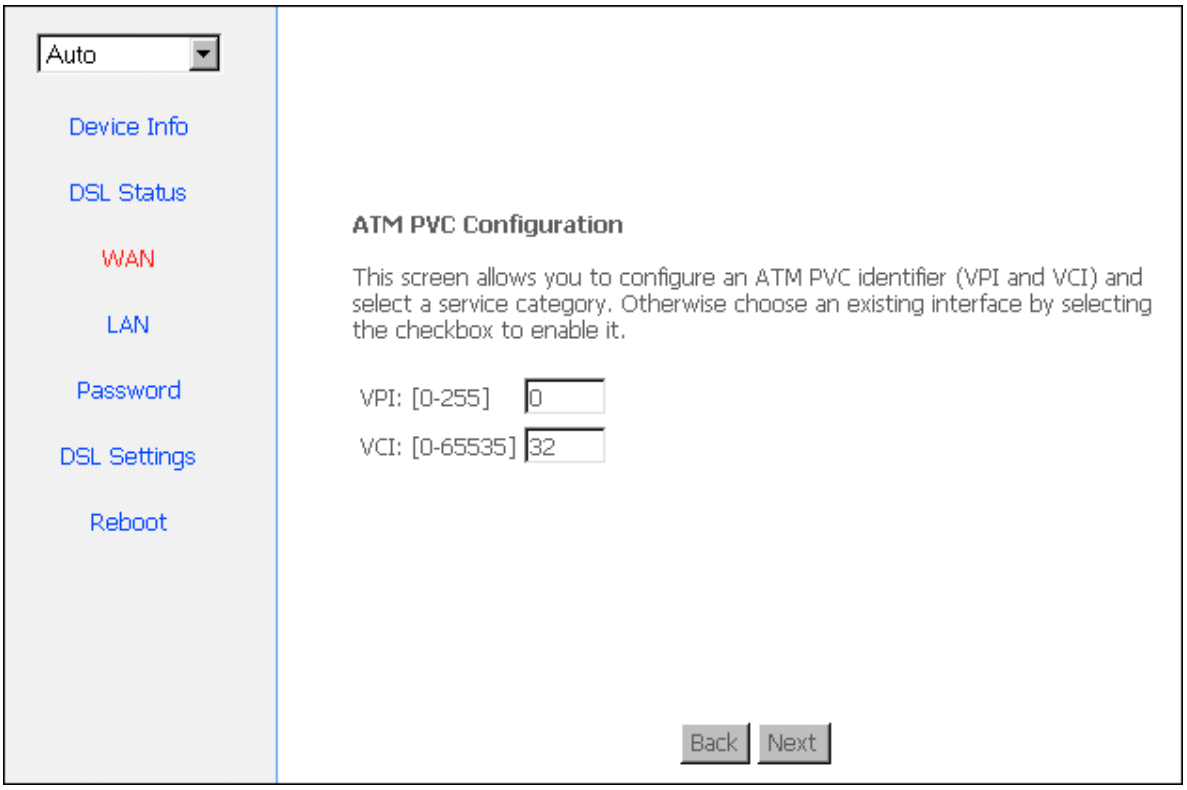


Figure 3.3

- The value for VPI/VCI is assigned by your ISP. After inputting the PVC value, press “Next” into “connection type”. As Figure 3.4.

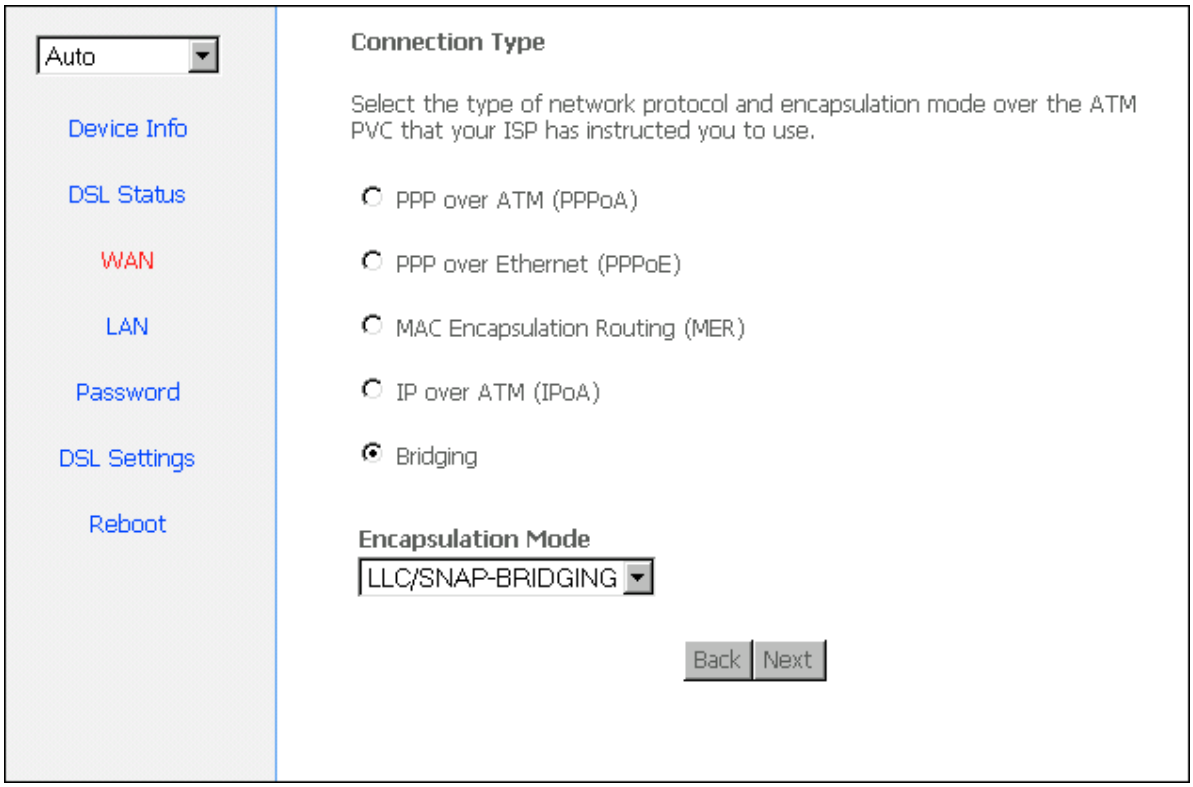


Figure 3.4

The Modem supports five ADSL protocol modes. Choose the protocol which is appointed by ISP and PVC

encapsulation, click “Next” enter to the protocol configure. Below, we introduce the configuraion of the five protocol modes.

- PPP over ATM (PPPoA)
- PPP over Ethernet (PPPoE)
- MAC Encapsulated Routing (MER)
- IP over ATM (IPoA)
- Bridging

- Some connection lines need to confirm the LLC or VC, if you can’t confirm, please don’t modify the default value or ask your ISP.

3.4.2 RFC1483 BRIDGE CONFIGURATION

Select the Bridging mode. Then press “Next” to specify the Service Name, and select the “Enable Service” as Figure 3.5.

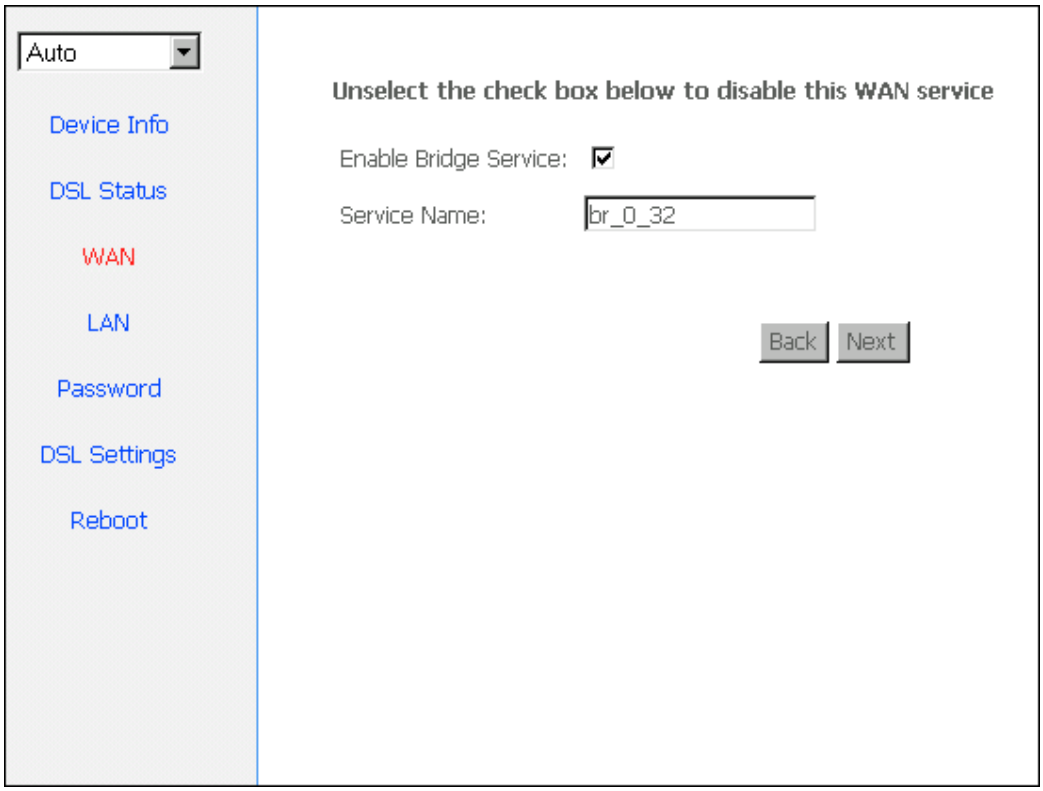


Figure 3.5

Press “Next” to enter into “WAN configuration”, click “save” to save configuration, if you need to modify the parameter, click “back” as Figure 3.6.

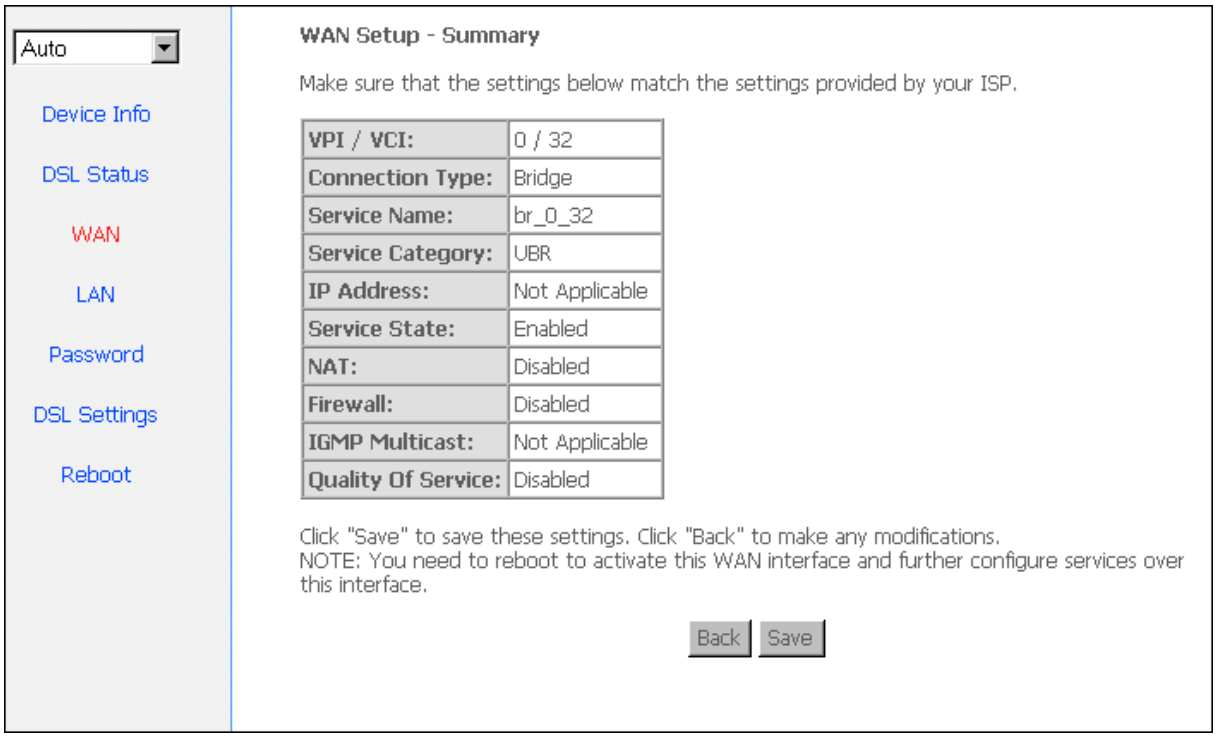


Figure 3.6

Note：When you use bridge mode, please close "DHCP SERVER", the result as Figure 3.7

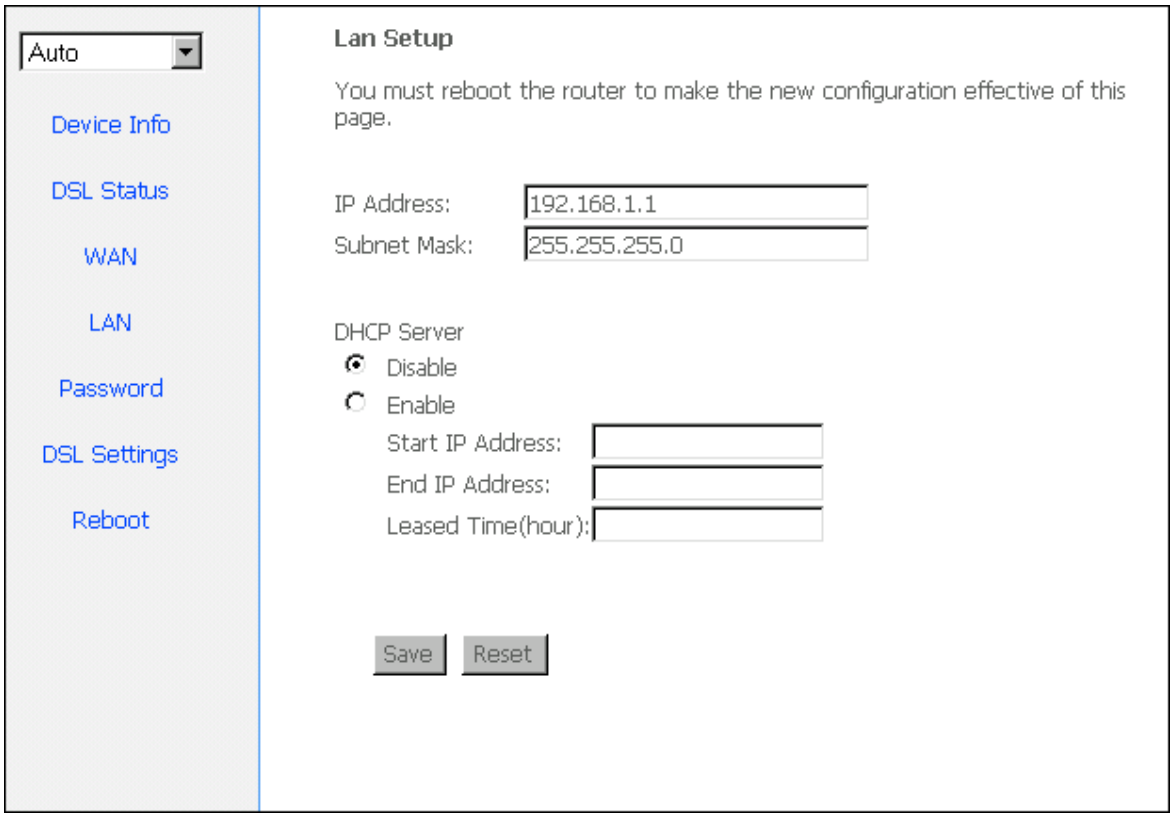


Figure 3.7

3.4.3 PPPOE CONFIGURATION

PPPoE is also known as RFC 2516. It is a method of encapsulating PPP packets over Ethernet.

PPPoA is also known as RFC2364 and named as Peer to Peer Protocol over ATM. As PPPoE, it also has all the features of PPP. Although it's based on ATM protocol, the setting of all the other parameters is similar with PPPoE. So we only introduce PPPoE in detail here.

In Figure 3.4, select PPP over Ethernet (PPPoE), press "Next step" entering the configuring interface, as Figure 3.8.

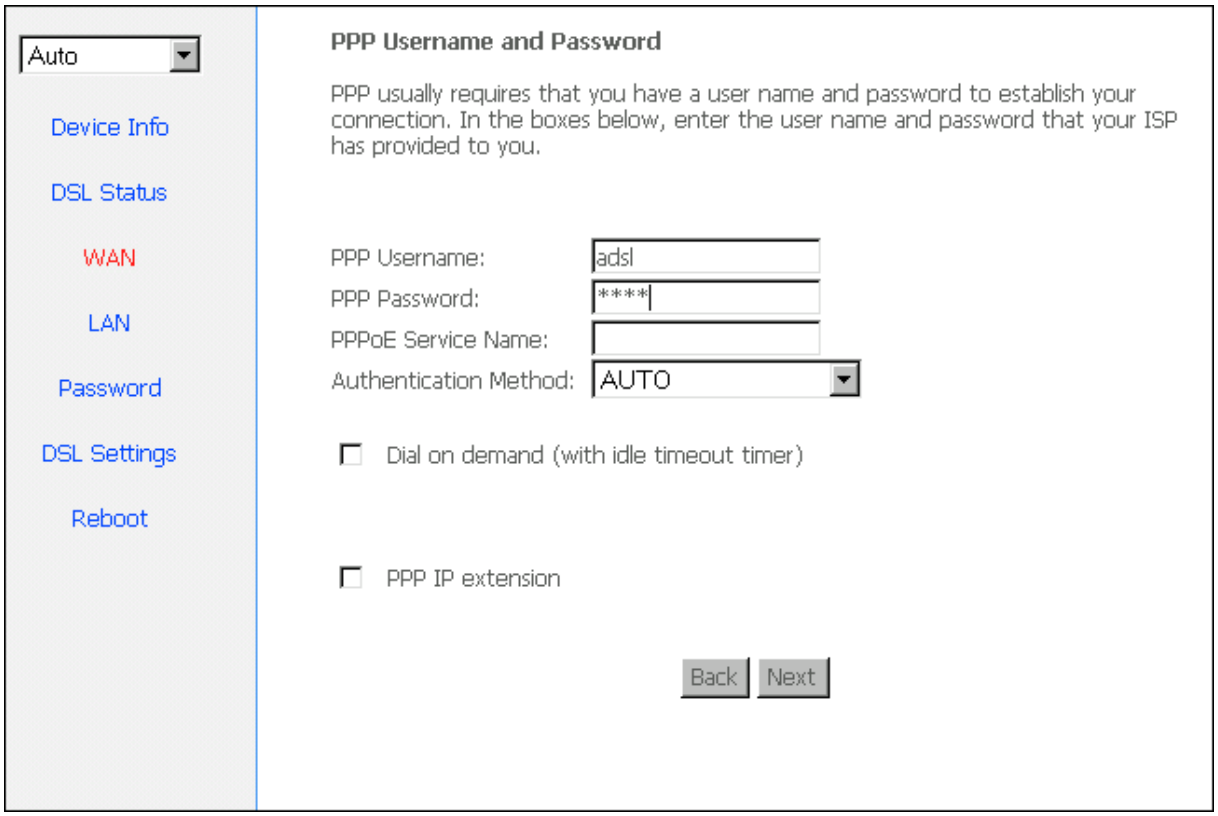


Figure 3.8

- PPP Account: Your account from ISP to access Internet.
- Password: Input the password assigned by your ISP.
- PPPoE server name: Server name of network ISP. No need to set.
- Authentication Mode: Authentication mode of network ISP. Default is AUTO.
- Connection on demand: When this mode is selected, the connection that has no traffic within assigned disconnect timeout (e.g. 1 minute) will be automatically disconnected. The connection will be activated again when traffic arrives. This function is advantageous for users who are charged with online time. It should be noticed that some programs automatically link to Internet. Computer will send data to network when infected by virus. Connection will not be disconnected under these data streams.
- Disconnect timeout: When "Connection on demand" is selected, this input box indicates that after how long the connection will be disconnected in the absence of traffic. If the value is 0, connection will not be disconnected.

Press “Next step” when configuration is finished. The following operation is same with Figure 3.5. Notice that PPPoE mode does not work until the modem is reset.

3.4.4 STATIC ADDRESS

In Figure3.4, select MAC Encapsulation Routing (MER), press “Next”, and the configuration can be queried from your ISP, the result as Figure3.9.

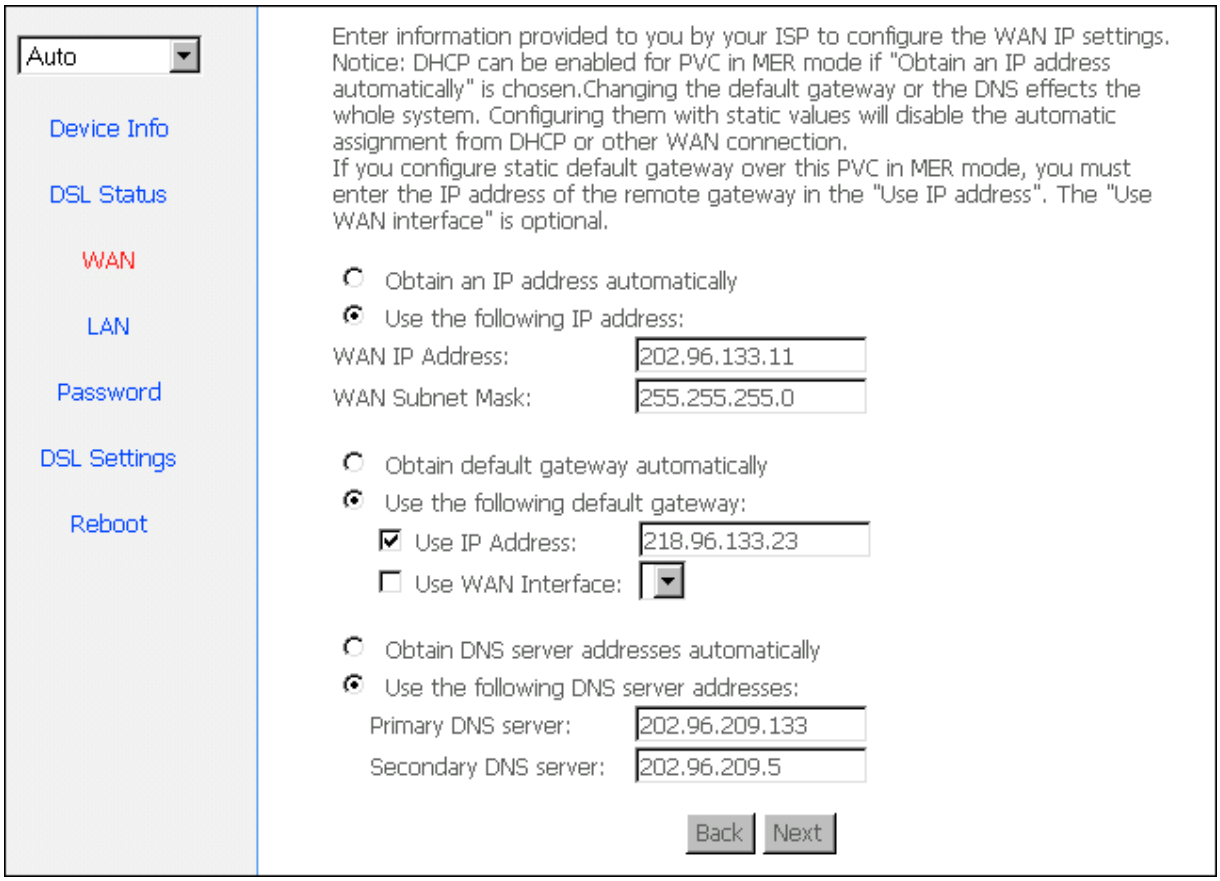

Auto
Device Info
DSL Status
WAN
LAN
Password
DSL Settings
Reboot
Enter information provided to you by your ISP to configure the WAN IP settings.
Notice: DHCP can be enabled for PVC in MER mode if "Obtain an IP address automatically" is chosen.Changing the default gateway or the DNS effects the whole system. Configuring them with static values will disable the automatic assignment from DHCP or other WAN connection.
If you configure static default gateway over this PVC in MER mode, you must enter the IP address of the remote gateway in the "Use IP address". The "Use WAN interface" is optional.
Obtain an IP address automatically
Use the following IP address:
WAN IP Address: 202.96.133.11
WAN Subnet Mask: 255.255.255.0
Obtain default gateway automatically
Use the following default gateway:
Use IP Address: 218.96.133.23
Use WAN Interface:
Obtain DNS server addresses automatically
Use the following DNS server addresses:
Primary DNS server: 202.96.209.133
Secondary DNS server: 202.96.209.5
Back
Next

Figure 3.9

4 OTHER CONFIGURATION

4.1 LAN CONFIGURATION

Configuration of Modem's IP address and password

4.1.1 CONFIGURATION OF MODEM'S IP ADDRESS

As a network device, ADSL Modem has its own IP address and MAC address. The factory sets the MODEM, at a default IP address of 192.168.1.1 and subnet mask of 255.255.255.0. The user can configure these addresses through the "LAN" on "Configuration" like this:

For example, change IP address to "10.10.10.10". Click "LAN", input "IP address": 10.10.10.10, then "subnet mask": 255.0.0.0, the result is as Figure4.1, press "save".

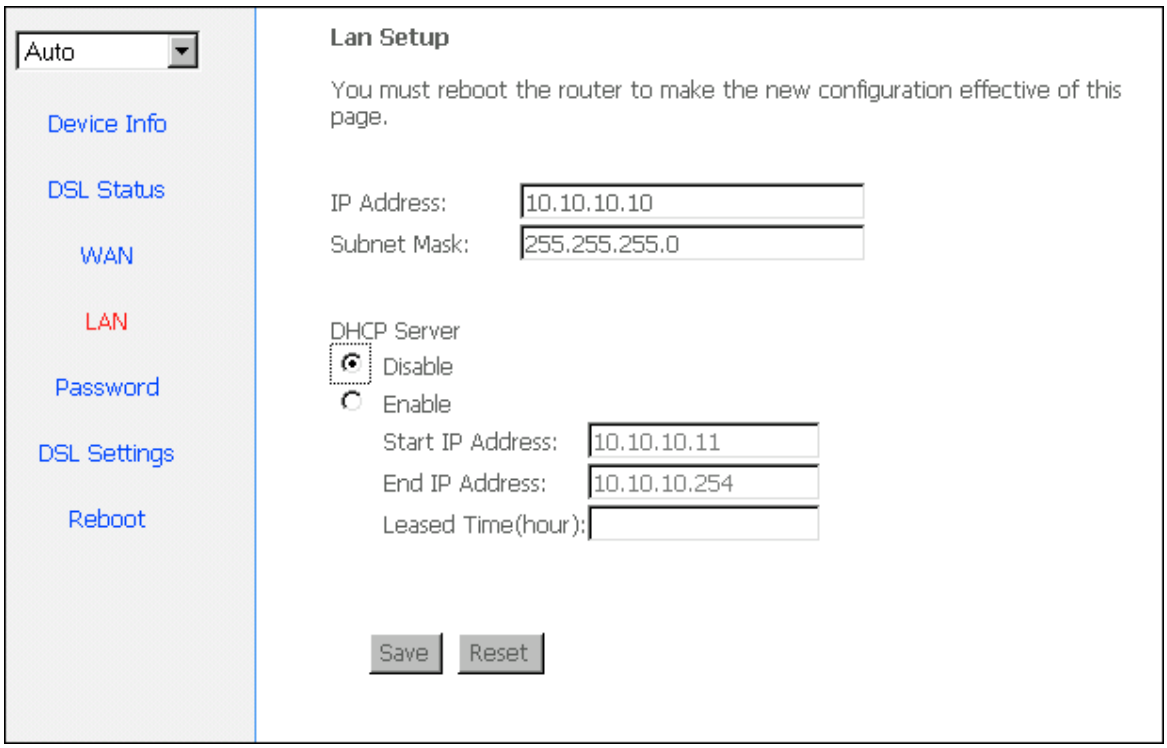


Figure 4.1

Note：If you change IP address, it will take effect after you reboot the modem. You must use the new IP address to login.

4.1.2 DHCP CONFIGURATION

- click **"LAN "**
- click **"DHCP server"**;
- Define the "Start IP address" and the "End IP address" of DHCP server (for example, from 10.10.10.11 to 10.10.10.254).

• Input the value of lease (Measured by the second, 0 indicates permanently valid).

As Figure 4.2, open DHCP server, computer will set the IP Address of network card with one of the address 10.10.10.11 ～ 10.10.10.254.

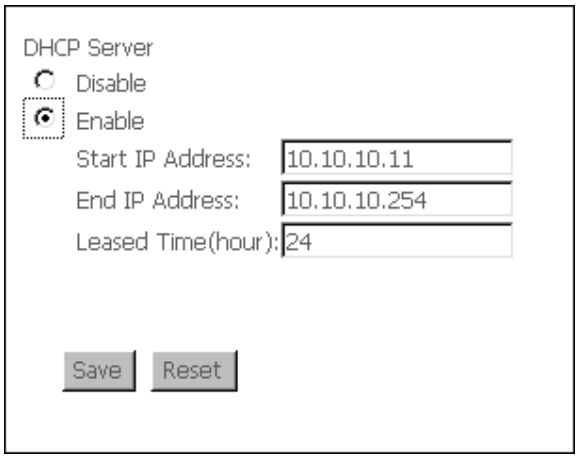


Figure 4.2

Note：When you use the DHCP Server, please pay attention to having multi-DHCP Server in one LAN.

4.2 PASSWORD CONFIGURATION

When you configure ADSL MODEM through an Internet browser, the system requires user name and password to validate access permission. The factory sets the modem at a default username of "**admin**" and the password of "**password**". The username is unchanged. You can enter the "password configuration" on Configuration column to change the password.

Attention: please remember the password after change, otherwise you will not be able to change configuration after saving setting

5 USAGE OF USB INTERFACE

The Combo DSL Gateway is a device with both Ethernet Interface and USB Interface, which is independent, you may use either of them to connect to the different computers, in this way the two computers can connect to the network at one time. The Gateway can be seen as a simple two-port HUB. So, do not connect both the Ethernet Interface and USB Interface to a same computer.

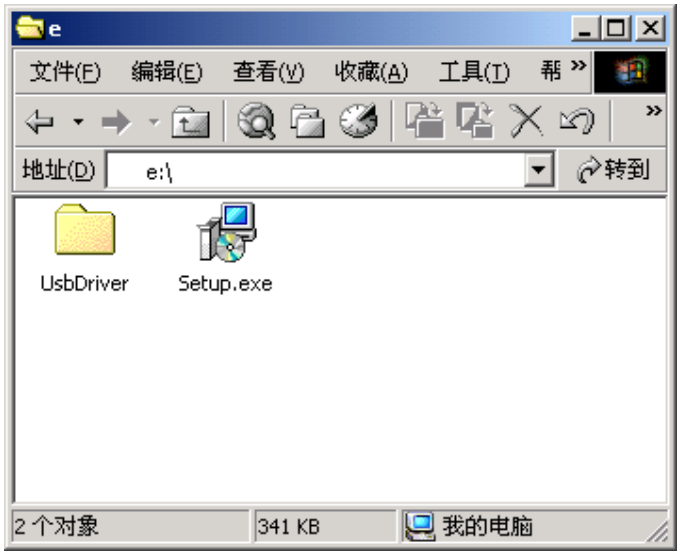
When using USB Interface, you must install the drivers. After installation, a virtual network card, "USB Remote NDIS Network Device", will be added into the computer. It has all the functions of a real network card, and it makes installation more easily.

NOTES:

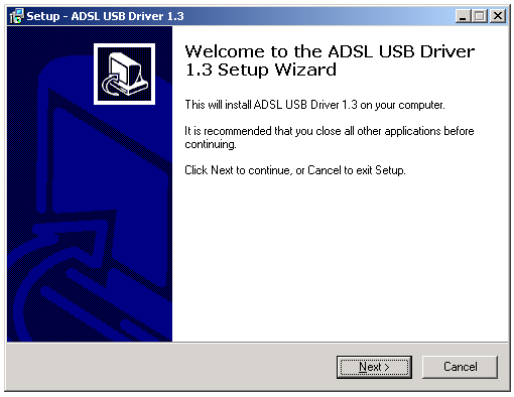
The following shows the steps for Windows®2000, the installation, configuration and uninstallation of Windows®98 or Windows®XP are similar to this.

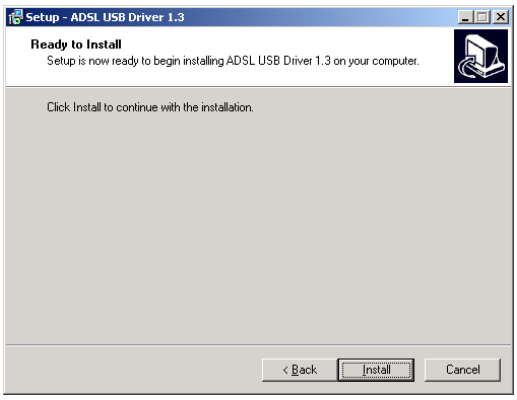
5.1 DRIVER AUTOMATIC INSTALLATION

There are two files in the DRIVER-CD.

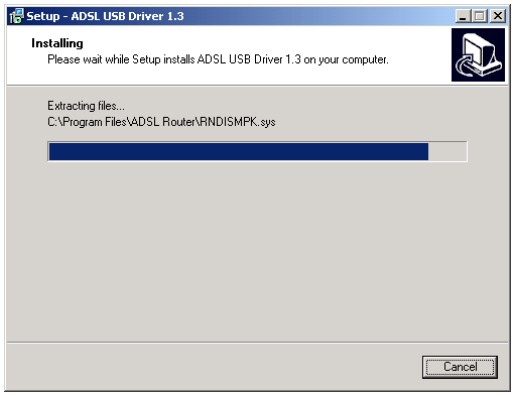


1. Run “setup.exe” in DRIVER-CD and click “Next” button.


Setup - ADSL USB Driver 1.3
Welcome to the ADSL USB Driver 1.3 Setup Wizard
This will install ADSL USB Driver 1.3 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel


Setup - ADSL USB Driver 1.3
Ready to Install
Setup is now ready to begin installing ADSL USB Driver 1.3 on your computer.
Click Install to continue with the installation.
< Back
Install
Cancel

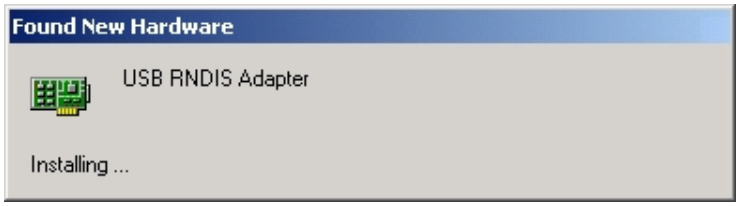
2. Click “Install” button to install the driver and wait few seconds.


Setup - ADSL USB Driver 1.3
Installing
Please wait while Setup installs ADSL USB Driver 1.3 on your computer.
Extracting files...
C:\Program Files\ADSL Router\RNDISMPK.sys
Cancel

3. Click “finish” to complete the install.

Setup - ADSL USB Driver 1.3
Completing the ADSL USB Driver 1.3 Setup Wizard
Setup has finished installing ADSL USB Driver 1.3 on your computer.
Now plugging the USB cable to PC.
The system will automatically detect the device.
Finish

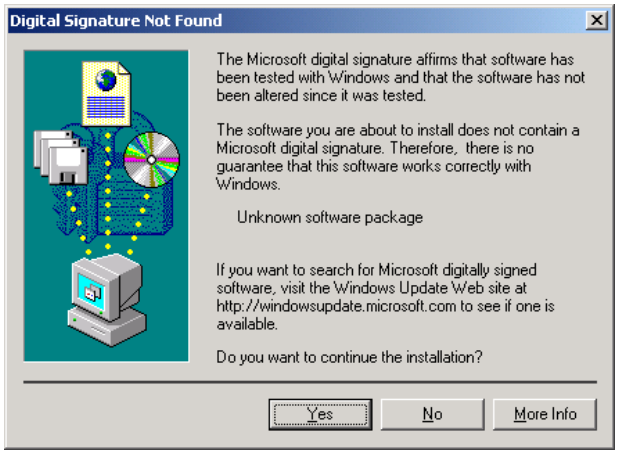
4. Plug in the power cord, and turn on the power.
5. Connect USB port of the Gateway to USB port on your PC with the USB cable that comes with the Gateway.



.

6. System install the drivers automatically.

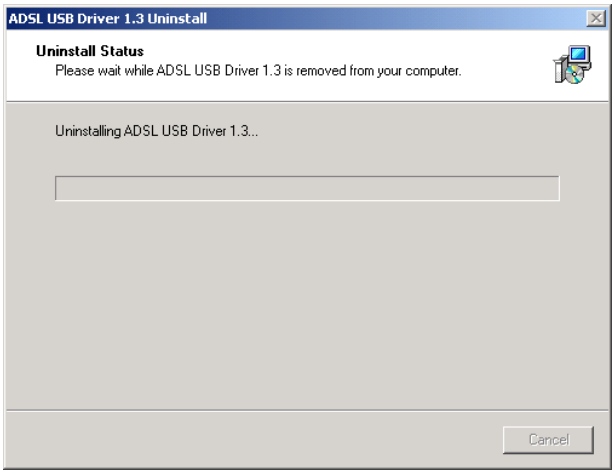
Notice: If pop up a windows like blow picture, please click “Yes” to allow it.


Digital Signature Not Found
The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.
The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.
Unknown software package
If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.
Do you want to continue the installation?
Yes
No
More Info

5.2 DRIVER AUTOMATIC UNINSTALLATION

1. Click “start” button to open the menu, choice “program” and find “ADSL Router”. Click “Uninstall ADSL USB Driver”.

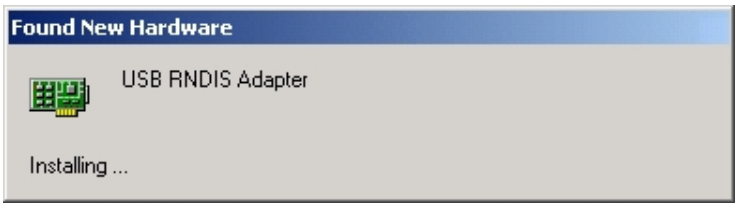
2. Click “Yes” button to start uninstall the driver.


ADSL USB Driver 1.3 Uninstall
Uninstall Status
Please wait while ADSL USB Driver 1.3 is removed from your computer.
Uninstalling ADSL USB Driver 1.3...
Cancel

3. Click “OK” button completed uninstall the driver.

5.3 DRIVER MANUAL INSTALLATION

1. Plug in the power cord, and turn on the power.
2. Connect USB port of the Gateway to USB port on your PC with the USB cable that comes with the Gateway.
3. Once the new hardware is detected as shown in the dialog box below, Choice "Search for a suitable driver for my device". As shown Figure 5.1, Click "Next" button.



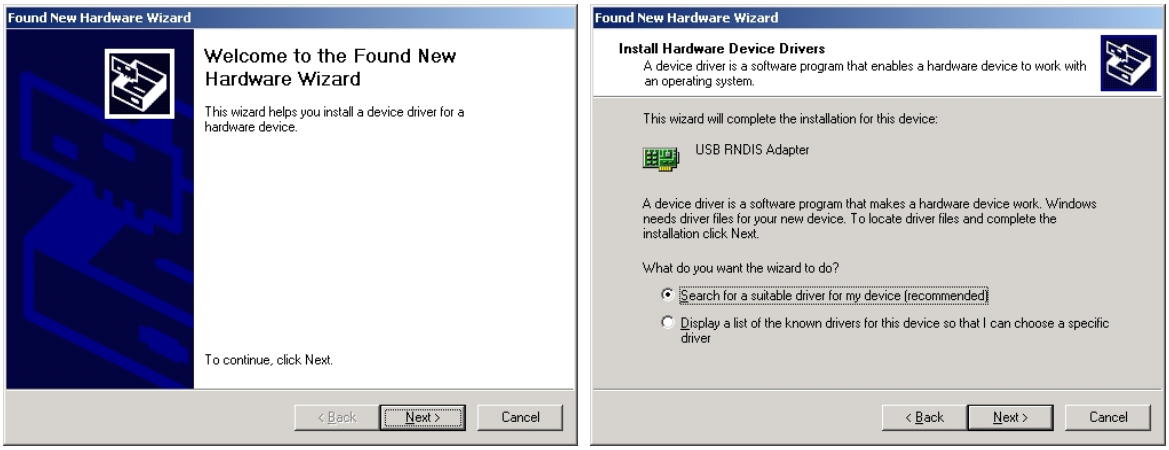

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install a device driver for a hardware device.
To continue, click Next.
< Back
Next >
Cancel
Found New Hardware Wizard
Install Hardware Device Drivers
A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device:
USB RNDIS Adapter
A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver
< Back
Next >
Cancel

Figure 5.1

4. The dialog box is as shown Figure 5.2. Choice "Specify a location", and Click "Next" button.

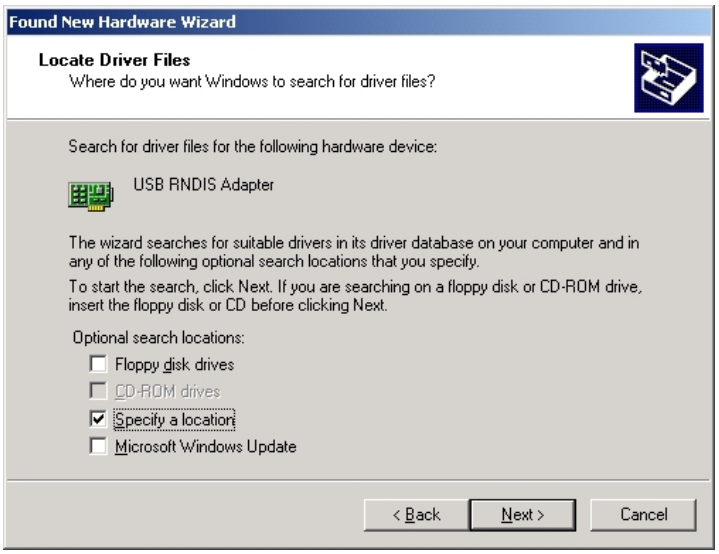

Found New Hardware Wizard
Locate Driver Files
Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
USB RNDIS Adapter
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy disk drives
CD-ROM drives
Specify a location
Microsoft Windows Update
< Back
Next >
Cancel

Figure 5.2

5. A new box will pop up for selection of the location of the driver. If the location is incorrect please click "Browse" and select the right location, then click "Next" button. As shown Figure 5.3.
The default location is in the "USB_DRV" folder of the CD.

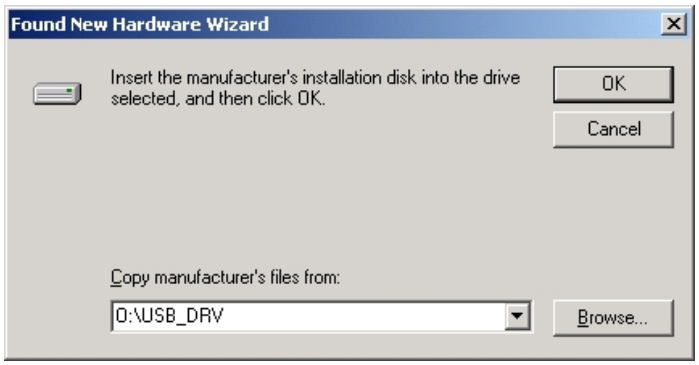


Figure 5.3

6. Click "Next" or "Continue" for any dialog box pops up.

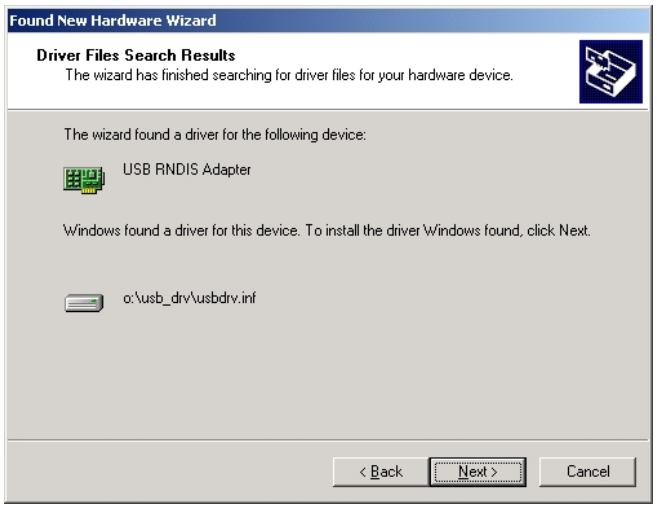

Found New Hardware Wizard
Driver Files Search Results
The wizard has finished searching for driver files for your hardware device.
The wizard found a driver for the following device:
USB RNDIS Adapter
Windows found a driver for this device. To install the driver Windows found, click Next.
o:\usb_drv\usbdrv.inf
< Back
Next >
Cancel

Figure 5.4

7. A message box will show the installation of "USB Remote NDIS Network Device" is complete. Click "Finish" button. As shown Figure 5.5.

Found New Hardware Wizard
Completing the Found New Hardware Wizard
USB Remote NDIS Network Device
Windows has finished installing the software for this device.
To close this wizard, click Finish.
< Back
Finish
Cancel

Figure 5.5

8. After the steps above, you will find there is a new item called "USB Remote NDIS Network Device" in "Control Panel"-"System"-"Device Manager"-"Network adapters". As shown figure 5.6. And a new "Local Area Connection X" is added in "Network Connections". As shown figure 5.7.

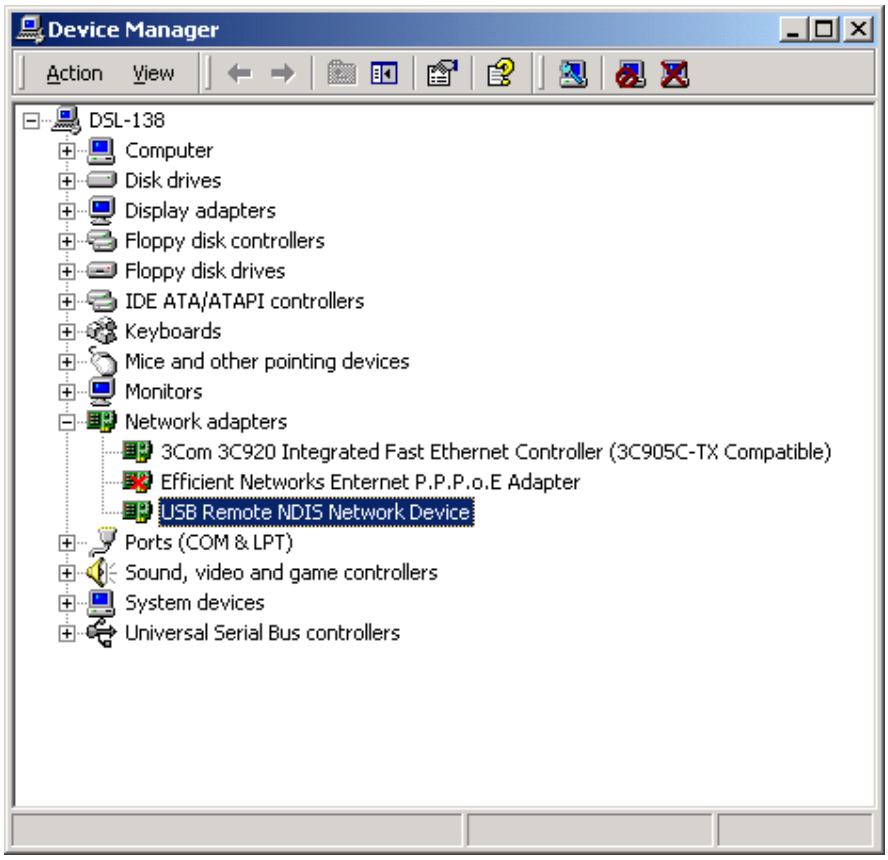


Figure 5.6

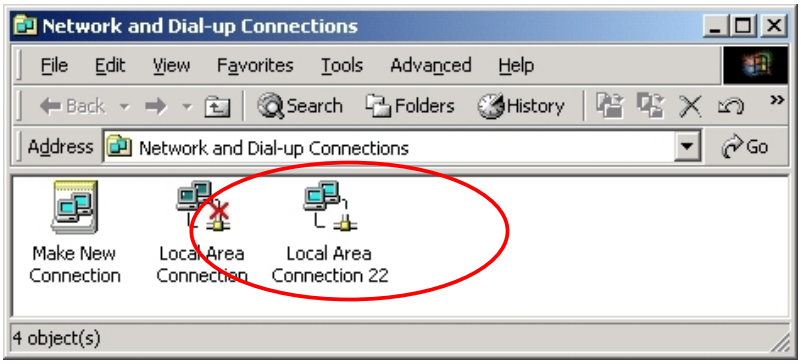


Figure 5.7

5.4 DRIVER MANUAL UNINSTALLATION

1. Right click the icon of "My Computer" on the desktop, choice "Properties" item on menu pop up. As shown Figure 5.8.

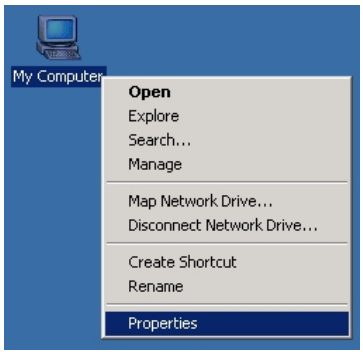


Figure 5.8

2. Click "Device Manager" button in "Hardware" page. As shown Figure 5.9.

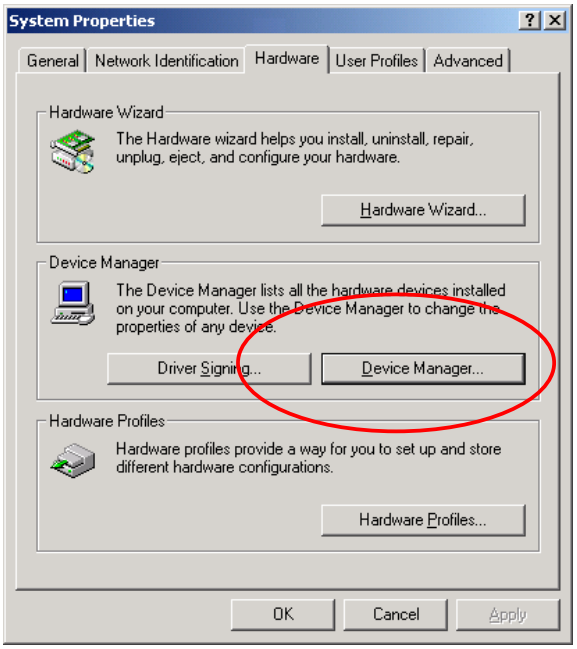

System Properties
General
Network Identification
Hardware
User Profiles
Advanced
Hardware Wizard
The Hardware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware.
Hardware Wizard...
Device Manager
The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.
Driver Signing...
Device Manager...
Hardware Profiles
Hardware profiles provide a way for you to set up and store different hardware configurations.
Hardware Profiles...
OK
Cancel
Apply

Figure 5.9

3. Double Click the "USB Remote NDIS Network Device" in "Device Manager" dialog box. As shown Figure 5.10.

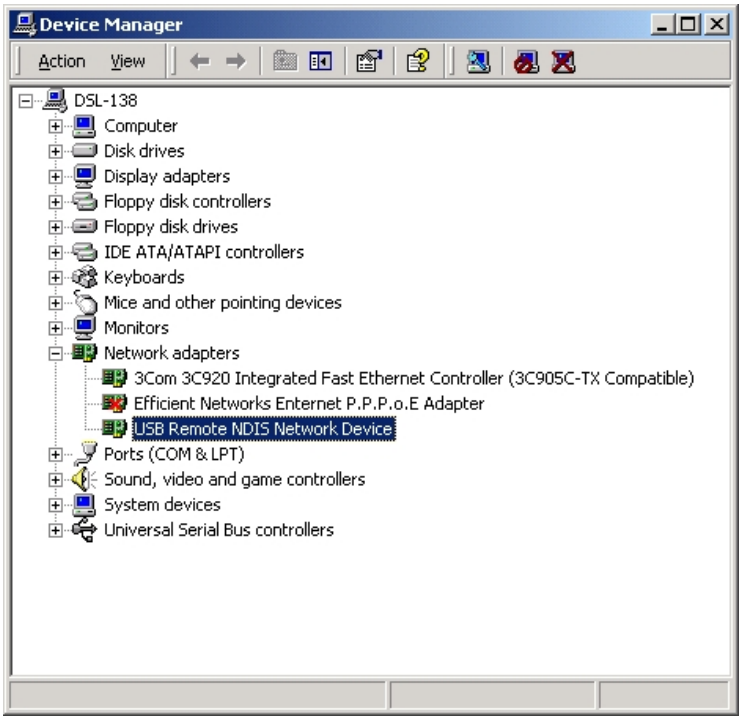


Figure 5.10

4. Click "Uninstall" button in "Driver" page. As shown Figure 5.11.

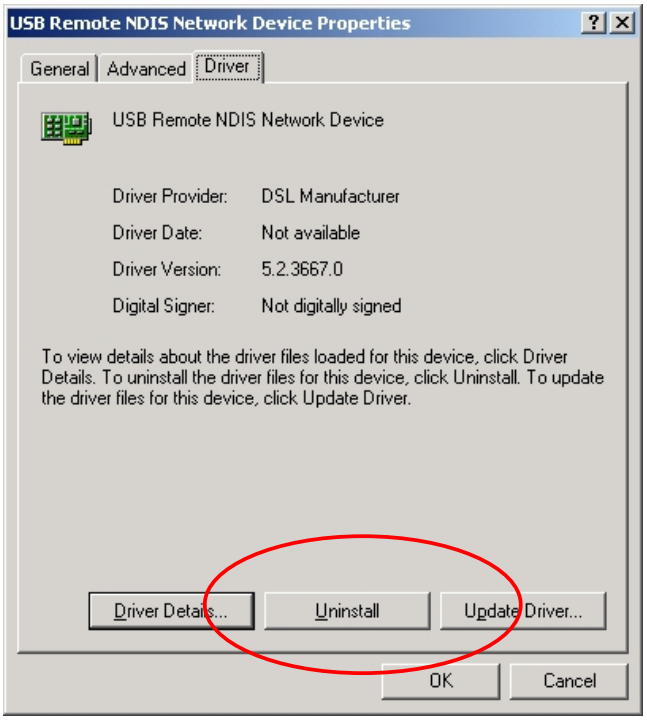

USB Remote NDIS Network Device Properties
General
Advanced
Driver
USB Remote NDIS Network Device
Driver Provider: DSL Manufacturer
Driver Date: Not available
Driver Version: 5.2.3667.0
Digital Signer: Not digitally signed
To view details about the driver files loaded for this device, click Driver Details. To uninstall the driver files for this device, click Uninstall. To update the driver files for this device, click Update Driver.
Driver Details...
Uninstall
Update Driver...
OK
Cancel

Figure 5.11

5. Click "OK" when the dialog box shown as below to finish the uninstallation.

Confirm Device Removal
USB Remote NDIS Network Device
Warning: You are about to uninstall this device from your system.
OK
Cancel

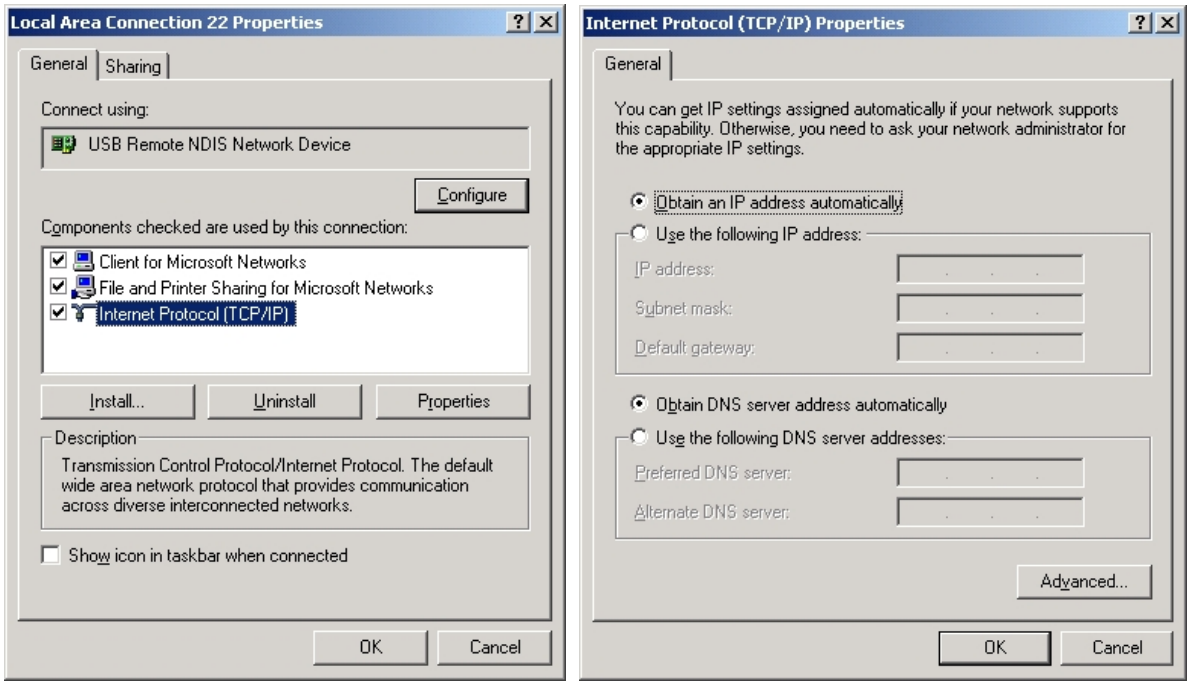
Figure 5.12

5.5 CONFIGURATION OF "USB REMOTE NDIS NETWORK DEVICE"

As a virtual network card, "USB Remote NDIS Network Device" can be configured as a normal network card.

Set the computer IP address at same segment of ADSL MODEM, such as set the IP address of the network card to one of the “192.168.1.2”～ “192.168.1.254”.

User can also change its configuration for special reason.


Local Area Connection 22 Properties
General
Sharing
Connect using:
USB Remote NDIS Network Device
Configure
Components checked are used by this connection:
Client for Microsoft Networks
File and Printer Sharing for Microsoft Networks
Internet Protocol (TCP/IP)
Install...
Uninstall
Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Show icon in taskbar when connected
OK
Cancel
Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

6. TROUBLESHOOTING

6.1 UNABLE TO ACCESS INTERNET

6.1.1 CHECK THE LINE AND THE DEVICE

1、Check the indicator of power supply is on, if not, Make sure the connection of power supply is correct; Make sure the output of power supply is correct; Make sure the switch of power supply is turned on；

2、Check the indicator of PC is on, if not, Make sure the connection of cable and network adapter; Make sure that the correct cable is used;

3、Check the LINK LED to see if it is twinkling. If no fast twinkling is observed within 3 minutes, please check whether phone line has been correctly placed; whether ADSL separator is correctly used. If multiple extensions have been installed, make sure that the separator is installed prior to the junction box of phone line. If the above items are confirmed and still no fast twinkling of WAN LED is observed, call the ISP to query whether ADSL service has been provided on your line;

4、Check the LINK LED to see whether it is unable to change status from fast twinkling to always light, or whether it changes status to fast twinkling after sometime of always light. If these phenomena occur constantly, please contact your ISP with a demand to check lines and signal quality;

If there is no problem in the above items, the line and the device shall be working. Problems may come from your computer configuration or device configuration.

6.1.2 CHECK YOUR CONFIGURATION

We explain here the configuration of PPPOE using Windows 2000 operation system as an example. For other operation systems the process is similar.

1、Enter the device manager to check if Ethernet adapter is correctly installed. If any problem exists, please re-installed it;

2、Check the configuration of Ethernet adapter in PC. Try to manually set IP address that is in band 192.168.1.x without conflict. See 3.2;

3、Try to run command “ping 192.168.1.1” on command line mode. If the response returns “time out”, please check Ethernet connection and IP settings;

4、If this modem is reachable, try to run ping with a known outer IP, e.g. the DNS server IP of ShangHai Online: “ping 202.96.209.133”.

- If ping is reachable, there shall be no problems in the modem. Please see step 5;
- If ping is not reachable, see step 6 and check if the configuration is correct.

5、Please try to ping a certain outer URL, e.g. “ping www.google.com”.

- If ping is reachable, there shall be no problems in the network settings. Please check the settings of the PC terminal, e.g. whether the security level is too high, or whether anti-virus firewall is installed;
- If ping is not reachable, check the DNS setting of Ethernet adapter. See 3.2.

Note 1：The precondition is that LAN settings in the modem has not been modified.

Note 2：We usually start command line mode in Windows 2000 as follows: click on the “RUN” item of Windows Start Menu, input characters “cmd” in the input box popped up with an “Enter”. The window

subsequently popped up is the command line window.

Note 3：The returned values of ping command in the following format show the standard of “reachable”

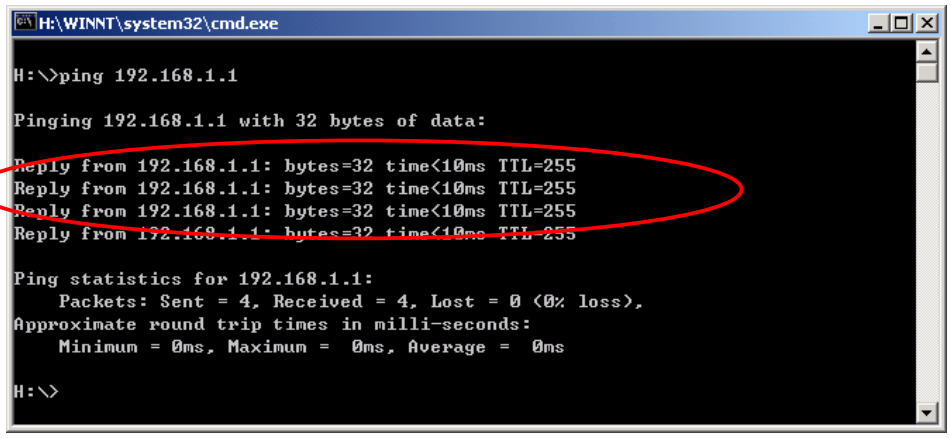


Figure 6.1

6、 If ping of the modem is reachable but ping of the outer fixed IP is unreachable, attention should be concentrated upon device settings. Please enter the configuring interface following the instructions in this manual.

（1） Check first the number of connections. If more than one connection exists, for troubleshooting , delete unused connections and remain the one connection you are using.

（2） Check the connection to see whether correct “type” is selected. It’s normal to choose login type of PPPoE. When you use PPPoE to login, the following information should be provided: VPI and VCI, which can be queried from your ISP, user name and password.

（3） Then make sure that “using NAT” and “default gateway” have been selected with a tick. Check whether “connect on demand” has been selected with a tick. If it is selected, the connection is activated only when traffic to outer networks arrives. If not selected, check “keep connection”, which should be set to 0 if you demand to keep connection

Make sure that the above parameters are saved after configuration. Internet is now available since the configuration is properly done.

ANNEX：SHIPPING LIST

ADSL MODEM	×1
Splitter	×1
User Manual	×1
Power Supply	×1
Cable Cat5 RJ45	×1
Telephone Line	×2
Usb Line	×1

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